SK26-AU

MINI SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

| Voltage	60 V	Current	2 A

SMB

Features

- Low forward voltage drop
- Deal for automated placement
- Low power loss, high efficiency
- High surge current capability
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard
- AEC-Q101 qualified

Mechanical Data

- Case: SMB Package
- Polarity: Color Band denotes cathode end
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0032 ounces, 0.092 grams
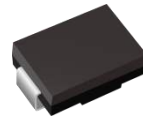
Maximum Ratings and Thermal Characteristics ($T_A = 25\,^{o}$C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	60	V
Maximum RMS Voltage	V_{RMS}	42	V
Maximum DC Blocking Voltage	V_{DC}	60	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	2	A
Peak Forward Surge Current: 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	50	A
Typical Junction Capacitance Measured at 1 MHz And Applied V_R = 4 V	C_J	80	pF
Typical Thermal Resistance	$R_{\theta JA}$ [1] $R_{\theta JC}$ [2] $R_{\theta JL}$ [2]	135 18 20	^{o}C/W
Operating Junction Temperature Range	T_J	-55~150	^{o}C
Storage Temperature Range	T_{STG}	-55~150	^{o}C

Electrical Characteristics ($T_A = 25^\circ C$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Instantaneous forward voltage	V_F	$I_F = 0.5$ A, $T_J = 25^\circ C$	-	0.41	-	V
		$I_F = 2$ A, $T_J = 25^\circ C$	-	-	0.7	
		$I_F = 0.5$ A, $T_J = 125^\circ C$	-	0.32	-	
		$I_F = 2$ A, $T_J = 125^\circ C$	-	0.57	-	
Reverse current	I_R [3]	$V_R = 48$ V, $T_J = 25^\circ C$	-	10	-	uA
		$V_R = 60$ V, $T_J = 25^\circ C$	-	-	90	
		$V_R = 60$ V, $T_J = 125^\circ C$	-	12	-	mA

NOTES:

1. Mounted on a FR4 PCB, single-sided copper, with mini pad
2. Mounted on a FR4 PCB, single-sided copper, with 100 cm^2 copper pad area
3. Short duration pulse test used to minimize self-heating effect
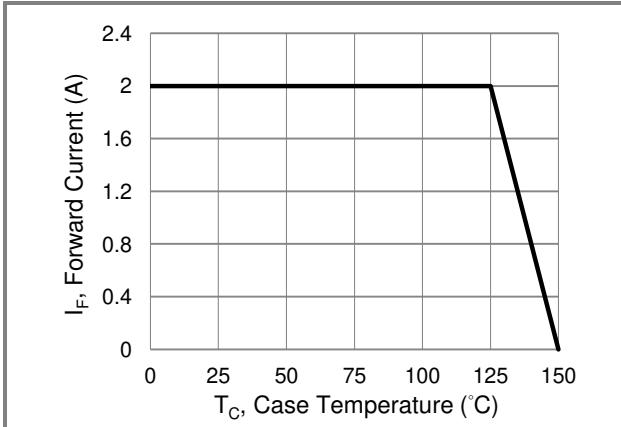
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TYPICAL CHARACTERISTIC CURVES
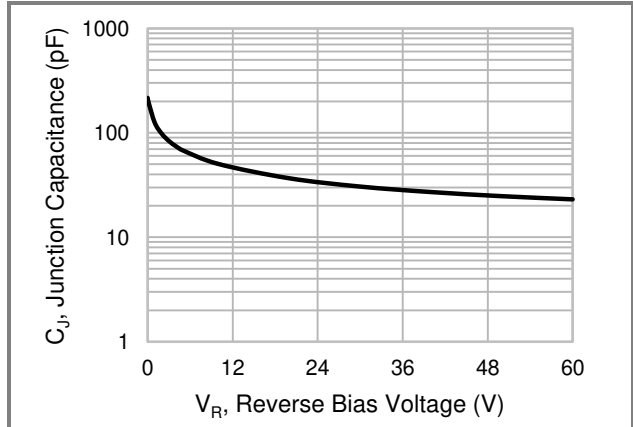

Fig.1 Forward Current Derating Curve
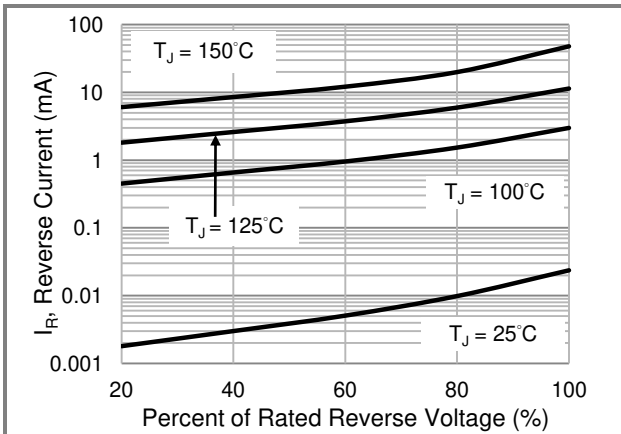

Fig.2 Typical Junction Capacitance

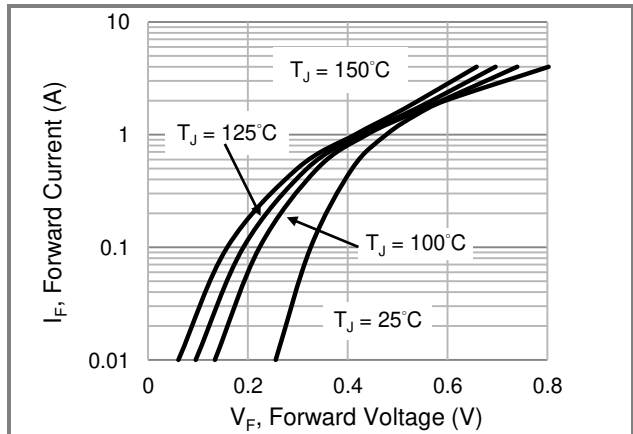**Fig.3 Typical Reverse Characteristics**
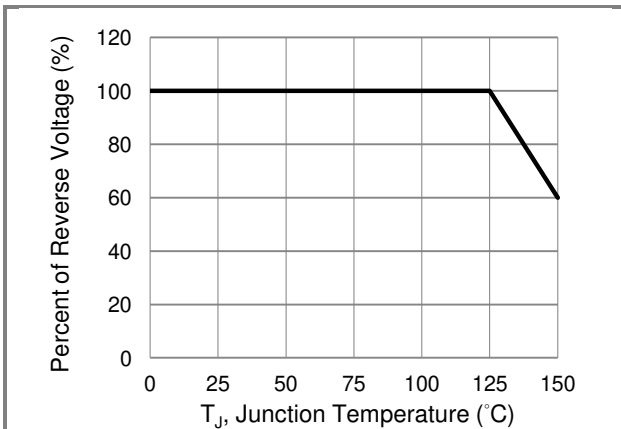

Fig.4 Typical Forward Characteristics
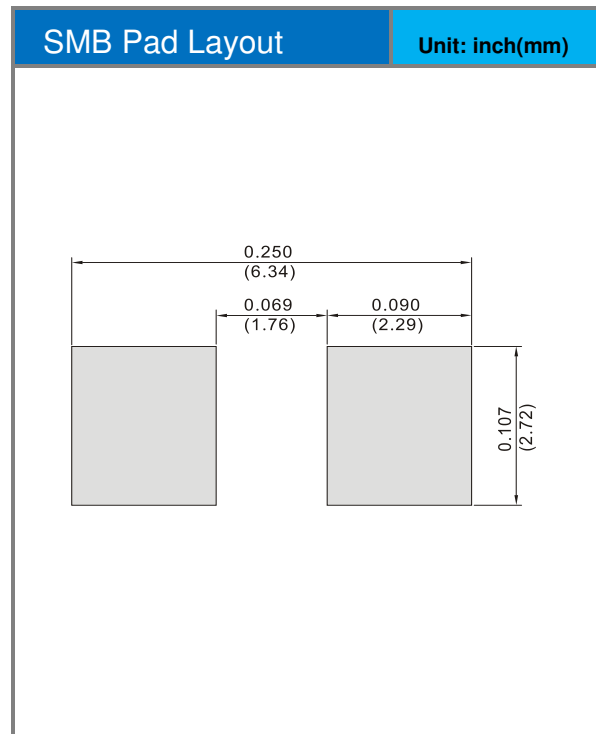

Fig.5 Operating Temperature Derating Curve

Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
SK26-AU_R2_000A1	SMB	3K / 13" reel	SK26	Halogen free

Packaging Information & Mounting Pad Layout

SMB Dimension	Unit: inch(mm)

0.155(3.94)
0.130(3.30)

0.083(2.11)
0.075(1.91)

0.185(4.70)
0.160(4.06)

0.012(0.305)
0.006(0.152)

0.096(2.44)
0.083(2.13)

0.060(1.52)
0.030(0.76)

0.008(0.203)
0.002(0.051)

0.220(5.59)
0.200(5.08)

SMB Pad Layout	Unit: inch(mm)

0.250
(6.34)

0.069
(1.76)

0.090
(2.29)

0.107
(2.72)
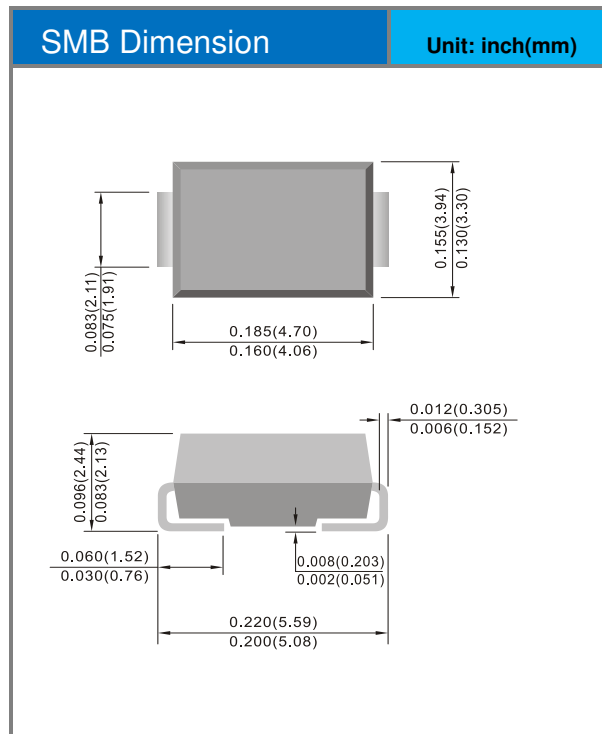
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